



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

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October 20, 1993

Mr. Ken Payne, Manager
Coastal States Energy Company
Skyline Mine
P. O. Box 719
Helper, Utah 84526

Re: Deficiencies in Sediment Pond Amendment, Abatement of NOV N93-39-5-3 (2 of 3),
Coastal States Energy Company, Skyline Mine, ACT/007/005-93I, Folder #2, Carbon
County, Utah

Dear Mr. Payne:

The Division has completed a review of the plans you recently submitted to abate violation N93-39-5-3 (2 of 3). Your designs and plans do not meet the requirements of R645-301-742 and are determined to be deficient at this time. Enclosed for your information is a copy of the technical review which further details the problems with your submittal. In order to abate the violation you are required to submit plans which meet the requirements of the regulations. This should be done as quickly as possible, since you are under a time schedule for NOV abatement.

Thank you for your help in resolving this issue. If you have questions, please don't hesitate to call.

Sincerely,

A handwritten signature in cursive script, reading "Daron R. Haddock".

Daron R. Haddock
Permit Supervisor

Enclosure

cc: S. Demczak
S. Johnson
SPILNOV.SKY





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October 15, 1993

TO: File

THRU: Daron Haddock, Permit Supervisor

FROM: Sharon Falvey, Senior Reclamation Hydrologist *SF*

RE: N93-39-5-3#2 Abatement-Mine Site Sediment Pond Amendment, Utah Fuel Company, Skyline Mine, ACT/007/005-93I, Folder #2, Carbon County, Utah

SUMMARY

In November of 1991 a TDN #X-91-0-244-9 and TDL #91-02-224-6 were issued for the lack of a spillway on the Mine Site Sedimentation Pond (see memo from Rick Summers, November 29, 1991). As a result of the federal enforcement actions, the operator was granted approval to place a 12 inch CMP culvert near the inflow point to discharge at the north west corner of the pond. Because the primary spillway was designed to handle the 100 year-24 hour precipitation event, the combination of spillways would meet the requirements. The Division approved installation of the spillway on November 26, 1991 with the condition that as-built drawings and descriptions of the spillway be submitted to the Division.

Since no drawings and design for the spillway were included in the plan, the operator was cited with violation N93-39-5-3#2. In addition, the operator was cited for failure to adequately design the waste rock pond. The amendment addressing abatement of the emergency spillway on the mine pond was received on October 4, 1993. The amendment to address the waste rock pond was not included in this submittal.

In addition to incorporating information relative to the previously approved installation of the secondary spillway, the operator submitted the following additional proposed changes:

1. Storm detention using a 25 year - 6 hour event. The design event required to be contained or treated in the pond is the 10 year 24 hour event. Decreasing the ability to pass a 100 year - 24 hour through the primary spillway to passing a 25 year - 6 hour event.
2. Proposed changes in the sediment capacity from 148,190 cu.ft. to 72,678 cu. ft sediment capacity.
3. Decreasing the design capacity for mine water discharge to 1.58 cfs from 9.98 cfs while an earlier capacity is shown at 0.51 cfs.



4. The operator included an additional drainage area of 0.86 acres.

Deficiency:

R645-301-742

1. The operator must provide designs which demonstrate treatment or containment of the 10 year 24 hour event.
2. If the operator wants to pursue the proposed change in sediment storage volume a demonstration that the newly proposed volume is adequate will be required. The required demonstration would include a record summarizing the pond volume and dates of clean out for all years previous, as well as, a design calculation showing how the sediment volume/year was determined. Consideration of snow removal storage and other sediment loading created from operations within the site should be accounted for. Note: The previous value for pond sediment capacity presented in cu. ft. was incorrectly calculated.
3. The operator must justify the basis for the proposed mine water discharge capacity.
4. A discussion of why the disturbed area to the pond has changed was not indicated. No map reference was provided for determining the watershed area contributing to the pond. With the increase in capacity required for the additional drainage area the operator decreased the design capacity of a 100 year 24 hr event to a 25 year - 6 hour event.

RECOMMENDATION

The operator has not demonstrated that the design requirements of R645-301-742 for sediment ponds is met by the proposed design. The operator should include design capacity for 12" spillway and provide the flow line elevation at that maximum capacity. Additional amendments, other than those directly related to the previously approved placement of the spillway and existing calculation errors, are not recommended. Submittal of additional changes could result in extended time to meet additional regulatory requirements and the failure to meet time constraints for violation abatement.